

Technics

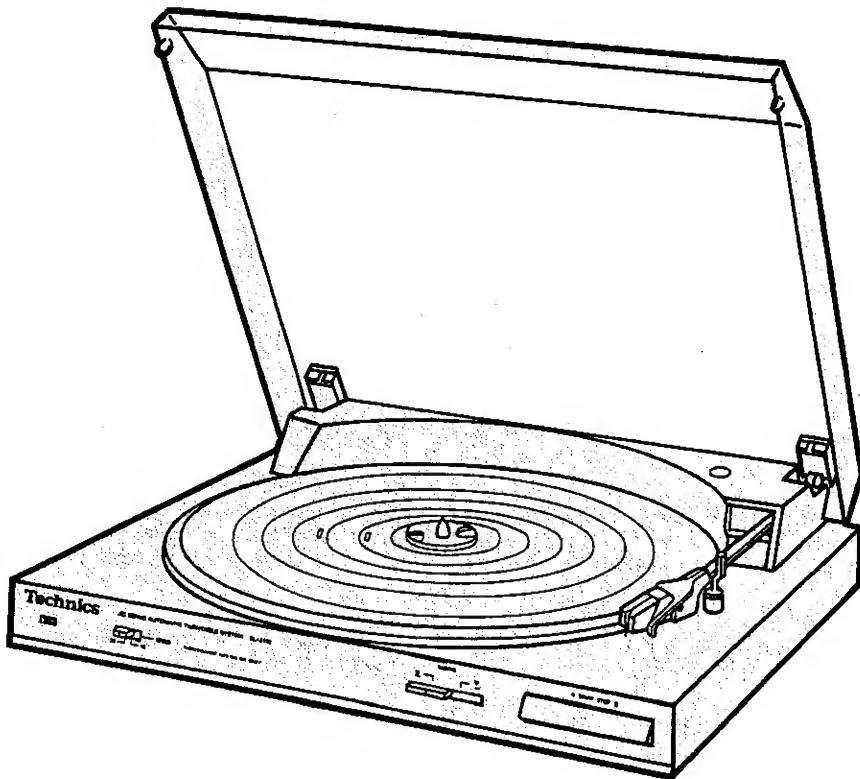
DC SERVO
Automatic Turntable system



T4P is the standard mark for the "P-mount" plug-in connector system. Products carrying this mark are interchangeable and compatible with each other.

SL-J120

OPERATING INSTRUCTIONS



Dear Stereo Fan

We want to thank you for selecting this product and to welcome you to the growing family of satisfied Technics product owners around the world. We feel certain you will get maximum enjoyment

from this new addition to your home.

Please read these operating instructions carefully, and be sure to keep them handy for convenient reference.

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Before Use

Be sure to disconnect the mains cord before adjusting the voltage selector.

Use a minus (-) screwdriver to set the voltage selector (on the rear panel) to the voltage setting for the area in which the unit will be used.

(If the power supply in your area is 117 V or 120 V, set to the "127 V" position.)

Note that this unit will be seriously damaged if this setting is not made correctly. (There is no voltage selector for some countries; the correct voltage is already set.)

Suggestions for Safety

■ Use a standard AC wall outlet

1. Use from an AC power source of high voltage, such as for an air conditioner, is very dangerous.

There is the possibility that a fire might be caused by making such a connection.

2. A DC power source cannot be used.

Be sure to check the power source carefully, especially on a ship or other place where DC is used.

■ Grasp the plug when disconnecting the power supply cord

1. Wet hands are dangerous.

A dangerous electric shock may result if the plug is touched by wet hands.

2. Never place heavy items on top of the power supply cord, and never force it to bend sharply.

■ Place the unit where it will be well ventilated

Place this unit at least 10 cm (4") away from wall surfaces, etc.

■ Avoid places such as the following:

In direct sunlight or in other places where the temperature is high.

In places where there is excessive vibration or humidity. Such conditions might damage the cabinet and/or other component parts and thereby shorten the unit's service life.

■ Be sure to place the unit on a flat, level surface

If the surface is inclined, a malfunction may result.

■ Never attempt to repair or reconstruct this unit

A serious electric shock might occur if this unit is repaired, disassembled or reconstructed by unauthorized persons, or if the internal parts are accidentally touched.

■ Take particular care if children are present

Never permit children to put anything, especially metal, inside this unit. A serious electric shock or malfunction could occur if articles such as coins, needles, screwdrivers, etc. are inserted through the ventilation holes, etc. of this unit.

■ If water is spilled on the unit

Be extremely careful if water is spilled on the unit, because a fire or serious electric shock might occur. Immediately disconnect the power cord plug, and consult with your dealer.

■ Avoid spray-type insecticides

Insecticides might cause cracks or "cloudiness" in the cabinet and plastic parts of this unit. The gas used in such sprays might, moreover, be ignited suddenly.

■ Never use alcohol or paint thinner

These and similar chemicals should never be used, because they might cause flaking or cloudiness of the cabinet finish.

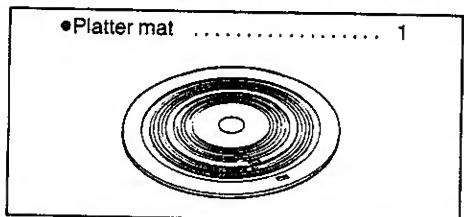
■ Disconnect the power supply cord if the unit will not be used for a long time

If the unit is left for a long time with the power ON, this will not only shorten its useful operation life, but may also cause other troubles.

■ If trouble occurs

If, during operation, the sound is interrupted or indicators no longer illuminate, or if abnormal odor or smoke is detected, immediately disconnect the power cord plug, and contact your dealer or an Authorized Service Center.

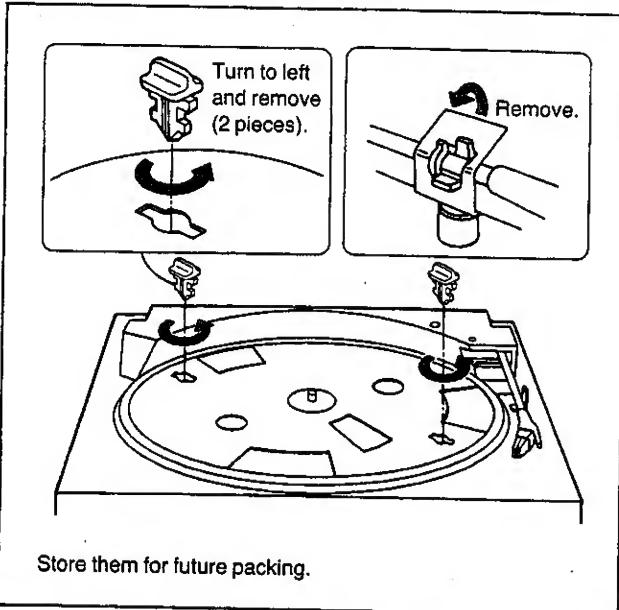
Accessories



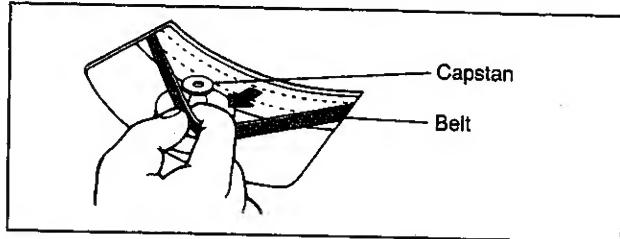
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Turntable Assembly

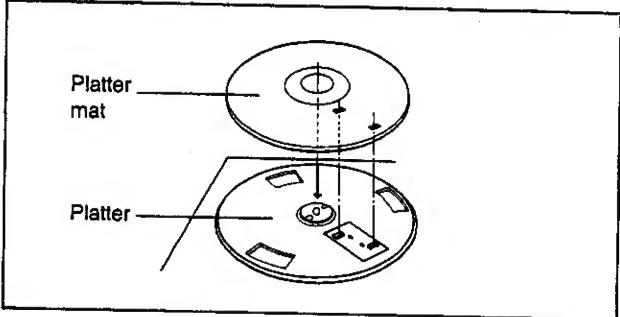
1. Remove the packing spacers.



2. Attach the drive belt properly.



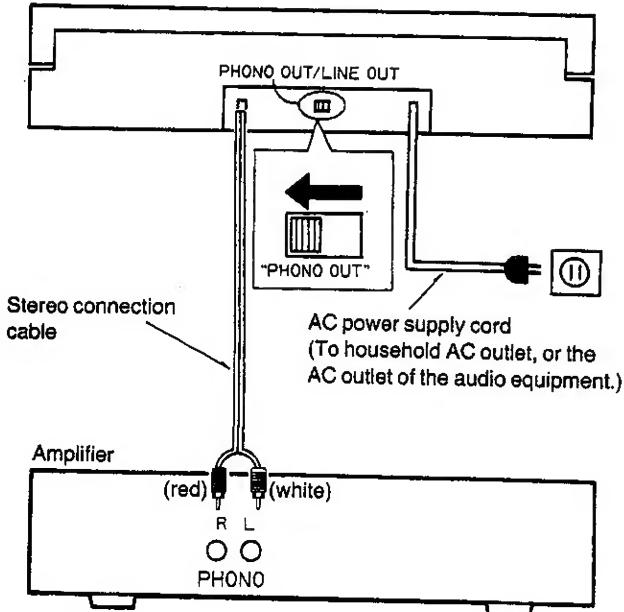
3. Place the platter mat on the platter.



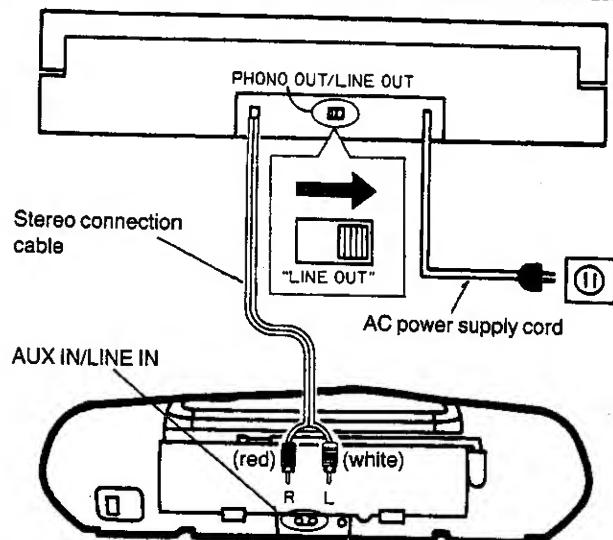
If the PHONO OUT/LINE OUT Switch Setting is not correct the sound may be adversely affected.

Connections

Connections with a stereo amplifier



Connection with a stereo radio-cassette player



Note:

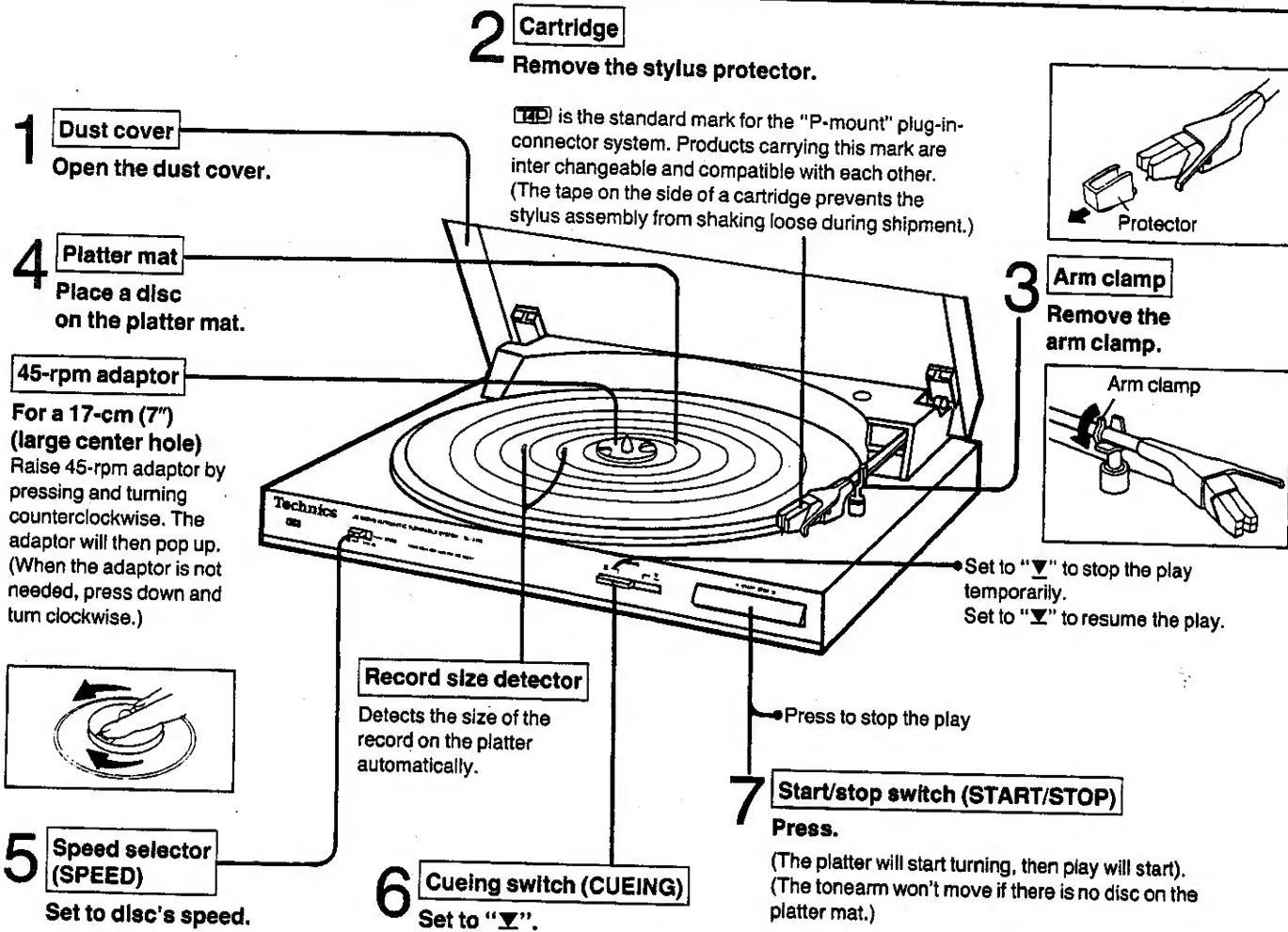
If the radio-cassette player is equipped with PHONO jacks, make connections in the same way as to a stereo amplifier.

Operation

Automatic play

Note:

Turn the amplifier on, and set it for listening to the sound.
(Refer to the operating instructions of the amplifier.)



Manual play

The following types of discs should be played manually.

- Discs other than 17- or 30-cm discs
- Lightweight discs such as "Soundsheets"
- Badly warped discs

1. Follow the step 1-5 of the automatic play.
2. Set the cueing switch to the "▼" position.
3. Move the tonearm to the desired position.
(The platter will start turning.)
4. Set the cueing switch to the "▲" position.

After use

1. Clamp the tonearm.
2. Attach the stylus protector.

The unit is in the standby condition when the AC power supply cord is connected.

The primary circuit is always "live" as long as the power cord is connected to an electrical outlet.

Notes

1. While the tonearm is moving, don't touch the tonearm.
2. The platter may start turning or keep turning in some cases like those listed below. Press the start/stop switch to make the platter stop.
 - When the power cord is connected.
 - If the start/stop switch is pressed when there is no disc on the platter mat.

■ When play ends

1. The tonearm will automatically return to the arm rest (the automatic return feature).
2. Rotation will stop.

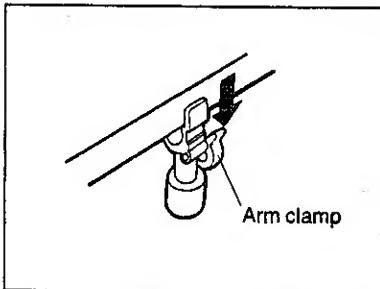
Adjustment

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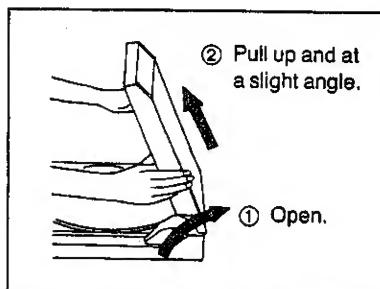
Adjustment of the automatic-start position

This adjustment is preset at the factory. If play starts from the middle of a tune, or the stylus descends outside the disc circumference, make the necessary adjustment.

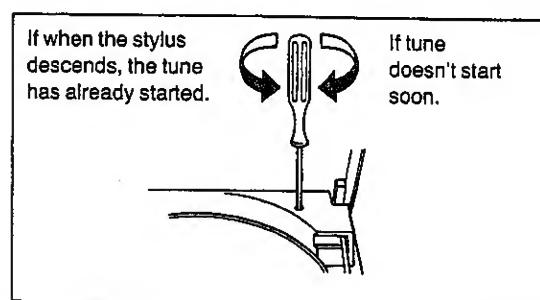
1. Clamp the tonearm.



2. Remove the dust cover.



3. Adjust to the desired automatic-start position.



4. Check to be sure the automatic-start position is correct.

Perform steps 3-7 on the opposite page (Automatic play) to check the position.

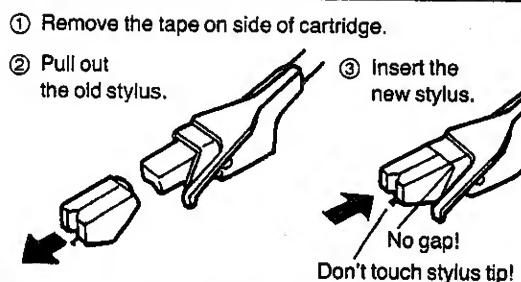
5. Attach the dust cover.

Replacement

Replacement of the stylus

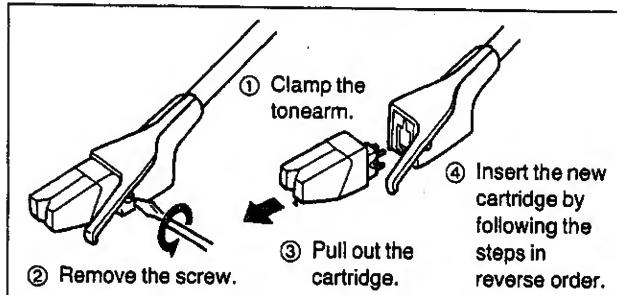
If noise is heard from new discs, the stylus is probably worn. Replace it with a new one.

• Stylus life approx. 1000 hours
• New stylus EPS-24CS



Replacement of the cartridge

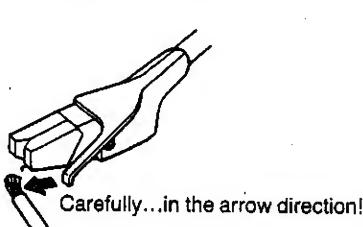
The plug-in type of cartridge is already designed to match this unit in every respect: weight, correct stylus pressure, stylus tip position, center of gravity, etc. This means that there's no longer any need for troublesome connection of lead wires or adjustment of the stylus pressure.



Maintenance

To clean dust from the stylus

Use a soft brush or similar material to gently remove the dust. Thoroughly clean your discs occasionally with a high-quality disc cleaner.



Maintenance of external surfaces

To clean this unit, use a soft, dry cloth. If the surfaces are extremely dirty, use a soft cloth, dipped into a soap-and-water solution or a weak detergent solution. Wring the cloth well before wiping the unit. Wipe once again with a soft, dry cloth. Never use alcohol, paint thinner, benzine, nor a chemically treated cloth to clean this unit. Such chemicals may damage the finish of your unit.

Troubleshooting Guide

Before requesting service for this unit, check the chart below for a possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation. If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, refer to the directory of Authorized Service Centers (enclosed with this unit) to locate a convenient service center, or consult your dealer for instructions.

Problem	Probable cause(s)	Suggested remedy
During disc play		
The platter doesn't turn when the start/stop switch is pressed.	The platter's belt has slipped off.	• Re-attach the belt.
A loud and unusual sound ("howling") is heard when the volume level is increased.	The location of the turntable and speaker systems is unstable.	• If the equipment is unstable because it is located upon a soft surface, such as a carpet, place a solid material (such as concrete blocks, bricks, a hard board, etc.) beneath the speaker systems. • Try moving the turntable farther away from the speaker systems. • Try placing a cushioning material (such as felt or commercially available audio insulators) beneath the turntable.
Unusual scratching noises are heard.	Disc is old or scratched. Dust in disc grooves or on the stylus. Stylus needle is worn. Dust is attached to stylus tip.	• Turn the treble tone control of the amplifier to reduce the treble sound. • Use a disc cleaner to remove the dust from the disc grooves. Use a soft brush to remove dust from the stylus. • If the noise is heard even when a new disc is played, probably the stylus is worn. Replace it with a new stylus. • Use a soft brush to remove the dust from the stylus.

Technical Specifications

■ TURNTABLE SECTION

Type	Automatic turntable
Drive method	Belt drive
Motor	DC motor
Drive control method	DC servo control
Turntable platter	Aluminum die-cast
Turtable speeds	Diameter 300 mm (12") 33⅓ rpm and 45 rpm
Wow and flutter	0.045% WRMS ±0.06% weighted zero to peak (IEC 98A weighted)
Rumble	70 dB DIN-B (IEC 98A weighted)

Tracking error angle Within 3°18' at inner groove of 30 cm (12") disc

Within 0°36' at outer groove of 30 cm (12") disc

Applicable cartridge weight 6 g

■ CARTRIDGE SECTION

Type	Moving magnet stereo cartridge
Magnet circuit	All laminated core
Frequency response	10 Hz-30 kHz
Output voltage	2.5 mV at 1 kHz, 5 cm/s. zero to peak lateral velocity (7 mV at 1 kHz, 10 cm/s. zero to peak, 45° velocity DIN 45 500)
PHONO OUT;	200 mV at 1 kHz, 5 cm/s. zero to peak lateral velocity (580 mV at 1 kHz, 10 cm/s. zero to peak, 45° velocity DIN 45 500)
LINE OUT;	200 mV at 1 kHz, 5 cm/s. zero to peak lateral velocity (580 mV at 1 kHz, 10 cm/s. zero to peak, 45° velocity DIN 45 500)

■ TONEARM SECTION

Type	Static-balanced, straight tonearm Plug-in-connector cartridge system
Overhang	25 mm (1")
Effective length	200 mm (7½")

Note: Specifications are subject to change without notice.
Weight and dimensions are approximate.

Channel separation 22 dB at 1 kHz

Channel balance Within 2 dB at 1 kHz

Recommended load impedance 47 kΩ-100 kΩ

Compliance (dynamic) 12×10^{-6} cm/dyne
(100 Hz)

Stylus pressure range 1.25 ± 0.25 g

Weight 6 g (cartridge only)

Replacement stylus EPS-24CS

■ GENERAL

Power supply

For Australia; AC 230-240 V, 50/60 Hz
For others; AC 110-127 V/220-240 V,
50/60 Hz

Power consumption 2 W

Dimensions (W×H×D) 360×83×320 mm
(14⅓"×3⅓"×12⅓")

When dust cover is open.
360×350×320 mm
(14⅓"×13⅔"×12⅓")

Weight 2.5 kg (5.5 lb)